

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Bjornson et al. :  
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: Attorney Docket No. 53706-5001-01  
Serial No.: Yet to be Assigned :  
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Filed: Herewith :  
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:   
For: METHOD AND APPARATUS FOR :  
HIGH-PERFORMANCE SEQUENCE :  
COMPARISON :

Mail Stop Patent Application  
Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**  
**PURSUANT TO 37 C.F.R. §§ 1.56 ET SEQ.**

Dear Sir:

In accordance with 37 C.F.R. § 1.97(b), the above-identified Applicants cite the following publications and other materials which may be material to the examination of this application and in respect of which there may be a duty of disclosure in accordance with 37 C.F.R. § 1.56. In compliance with 37 C.F.R. § 1.98(d), copies of the patents and publications set forth below and listed on the attached Form PTO 1449 (1 sheet) have not been provided because they were cited in the parent Application Serial No. 09/814,056. In addition, the Applicants hereby bring to the Examiner's attention Application Serial No. 10/610,133. This Information Disclosure Statement is being filed on this day concurrently with a non-provisional application.

**EXPRESS MAIL CERTIFICATE (37 C.F.R. § 1.10)**

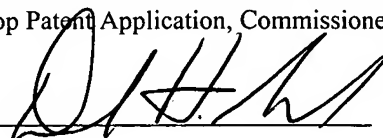
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Date of Deposit November 3, 2003

I hereby certify that this paper, and the papers and/or fees referred to herein as transmitted, submitted or enclosed, are being deposited with the U.S. Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10 on the date indicated above and is addressed to Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Name Daniel H. Golub

Signature



### Patents

PATENT NUMBER	APPLICANT	ISSUE DATE
5,701,256	Marr et al.	December 23, 1997
5,828,894	Wilkinson et al.	October 27, 1998
5,873,052	Sharaf	February 16, 1999
5,884,303	Brown	March 16, 1999
6,009,422	Ciccarelli	December 28, 1999
6,088,044	Kwok et al.	July 11, 2000
6,112,225	Kraft et al.	August 29, 2000
6,289,334	Reiner et al.	September 11, 2001
6,523,030	Horowitz	February 18, 2003

### Patent Applications

PUBLICATION NO.	APPLICANT	PUBLICATION DATE
2001/0053957	Blair et al.	December 20, 2001
2003/0055813	Chaudhuri et al.	March 20, 2003

### Publications

Camp, "High-Throughput BLAST," Silicon Graphics, Inc., 15 pp (September, 1998).

BTG Product Overview, 4 pp.

Scientific Computing Associates Inc., Paradise Product Overview, 2 pp (1995).

Paradise: User's Guide and Reference Manual, Version 6.2, Scientific Computing Associates (April, 2000).

"SGI Bioinformatics Performance Report," Silicon Graphics, Inc., 10 pp (Summer 2000).

Davidson et al., "Facilitating Transformations in a Human Genome Project Database," ACM, p. 423, (1994).

Yona et al., "A Unified Sequence-Structure Classification of Protein Sequences: Combining Sequence and Structure in a Map of the Protein Space," RECOM, p. 308 (2000).

Chakravarthy, "Divide and Conquer: A Basis for Augmenting a Conventional Query Optimizer with Multiple Query Processing Capabilities," IEEE, p. 482 (1991).

Jiang et al., "Dynamic Parallel Query Processing for Distributed Objects," 9th International Workgroup on Database and Expert System Applications Proceedings, p. 699 (August 1998).

Salazar et al., "On an Efficient Parallelization of Exhaustive Sequence Comparison Algorithms on Message Passing Architectures," Oxford University Press, Vol. 10, No. 5, p. 509 (1994).

Yap et al., "Parallel Computation in Biological Sequence Analysis," IEEE Transactions on Parallel and Distributed Systems, Vol. 9, No. 3, p. 283 (March 1998).

Gao et al., "Multithreaded Implementation of a Biomolecular Sequence Alignment Algorithm-Software/Information Technology, IEEE, p. 494, (2000).

Wang et al., "Parallel R-Tree Search Algorithm or DSVM," Proceedings of 6th International Conference on Database System for Advanced Applications, p. 19 (April 1999).

Applicants respectfully request that these items be considered by the Examiner, and that the Examiner acknowledge consideration of the publications and materials by initialing and returning copies of the enclosed Form PTO 1449 with the next official action.

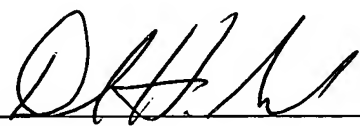
While this Information Disclosure Statement may be "material" pursuant to 37 C.F.R. § 1.56, it is not intended to constitute an admission that any patent, publication or other information referred to herein is "prior art" for this invention or otherwise material to the patentability of this invention as defined in 37 C.R.F. § 1.56.

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made or that other material information as defined in 7 C.F.R. § 1.56(b) exists.

The Commissioner is hereby authorized to charge any fees that may be due in connection with this submission to Deposit Account No. **50-0310**. A duplicate copy of this page is enclosed.

Respectfully submitted,

Dated: November 3, 2003

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Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	Not Assigned Yet
				Filing Date	11/03/2003
				First Named Inventor	Bjornson et al.
				Group Art Unit	Not Assigned Yet
				Examiner Name	Not Assigned Yet
Sheet	1	of	1	Attorney Docket Number	053706-5001-01
<b>U.S. PATENT DOCUMENTS</b>					
Exr Initials	U.S. Patent Document		Name of Inventor or Applicant of Cited Document	Issue Date (Patents) Publication Dates (Applications) MM-DD-YYYY	
	Number	Kind Code (if known)			
	5,701,256	.	Marr et al.	December 23, 1997	
	5,828,894		Wilkinson et al.	October 27, 1998	
	5,873,052		Sharaf	February 16, 1999	
	5,884,303		Brown	March 16, 1999	
	6,009,422		Ciccarelli	December 28, 1999	
	6,088,044		Kwok et al.	July 11, 2000	
	6,112,225		Kraft et al.	August 29, 2000	
	6,289,334		Reiner et	September 11, 2001	
	6,523,030		Horowitz	February 18, 2003	
<b>FOREIGN PATENT DOCUMENTS</b>					
Exr Initials	Foreign Patent Document		Name of Inventor or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	
	Country Code	Number Kind Code (if known)			
		2001/0053957	Blair et al.	December 20, 2001	
		2003/0055813	Chaudhuri et al.	March 20, 2003	
<b>OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS</b>					
Exr Initials	Include Name of Author (in CAPITAL LETTERS), title of the article (where appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published				
	CAMP, "High-Throughput BLAST," Silicon Graphics, Inc., 15 pp (September, 1998).				
	BTG Product Overview, 4 pp.				
	Scientific Computing Associates Inc., Paradise Product Overview, 2 pp (1995).				
	Paradise: User's Guide and Reference Manual, Version 6.2, Scientific Computing Associates (April, 2000).				
	"SGI Bioinformatics Performance Report," Silicon Graphics, Inc., 10 pp (Summer 2000).				
	DAVIDSON et al., "Facilitating Transformations in a Human Genome Project Database," ACM, p. 423 (1994).				
	YONA et al., "A Unified Sequence-Structure Classification of Protein Sequences: Combining Sequence and Structure in a Map of the Protein Space", RECOM, p. 308 (2000).				
	CHAKRAVARTHY, "Divide and Conquer: A Basis for Augmenting a Conventional Query Optimizer with Multiple Query Processing Capabilities," IEEE, p. 482 (1991).				
	JIANG et al., "Dynamic Parallel Query Processing for Distributed Objects," 9th International Workgroup on Database and Expert System Applications Proceedings, p. 699 (August 1998).				
	SALAZAR et al., "On An Efficient Parallelization of Exhaustive Sequence Comparison Algorithms on Message Passing Architectures," Oxford University Press, Vol. 10, No. 5, p. 509 (1994).				
	YAP et al., "Parallel Computation in Biological Sequence Analysis," IEEE Transactions on Parallel and Distributed Systems, Vol. 9, No. 3, p. 283 (March 1998).				
	GAO et al., "Multithreaded Implementation of a Biomolecular Sequence Alignment Algorithm-Software/Information Technology, IEEE, p. 494, (2000).				
	WANG et al., "Parallel R-Tree Search Algorithm or DSVM," Proceedings of 6th International Conference on Database System for Advanced Applications, p. 19 (April 1999).				

Examiner Signature		Date Considered	
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